

SAFETY DATA SHEET**1. Identification**

Product Name: MA-77 Citrus Pro
Product Code: B2542
SDS Date: 10/16/2017
Use: Industrial

Express Chem LLC; Mast-Away Mastic Removers600
WestWoodbine Avenue Kirkwood, MO 63122
masticremover.com

General Information: 314-266-4600; Toll-Free: 844-266-4600
CHEMTREC: 800-424-9300 Ref. Chemisphere

2. Hazard(s) identification**GHSClassification**

Flammable liquids (Category 3), H226
Skin irritation (Category 2), H315
Eye irritation (Category 2B)
Skin sensitization (Category 1), H317
Aspiration hazard (Category 1), H304

Pictogram

Signalword Danger

HazardStatement

Flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
May be fatal if swallowed and enters airways.

Precautionary

Avoid breathing mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Ground/bond container and receiving equipment. Keep away from heat/ sparks/open flames/ hot surfaces-no smoking. Keep container tightly closed. Take precautionary measure against static discharge. Use only non-sparking tools. Wash thoroughly after handling. Wear protective gloves/ eye protection/ face protection
Response: Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water shower. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/ attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If swallowed: Immediately call a poison center/ doctor. In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. Storage: Store

in a well-ventilated place. Keep cool. Store locked up. Disposal: Dispose of contents/ container in accordance with local/ regional/ national/ international regulations.

Hazards not otherwise classified: Not available

3. Composition/information on ingredients

Name	CAS	Concentration
Nonylphenol, ethoxylated	127087-87-0	1-20
D-Limonene	5989-27-5	70-100

4. First-aid measures

General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If Inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In Case of Skin Contact	Wash off with soap and plenty of water. Consult a physician.
In Case of Eye Contact	Flush eyes with water as a precaution.
If Swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indications of any immediate medical attention and special treatment needed

No data available

5. Fire-fighting measures

Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special Hazards	Carbon oxides
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Further Information	Use water spray to cool unopened containers.

6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
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Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

7. Handling and storage

Safe Handling Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Safe Storage Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. Exposure controls/personal protection

Name		CAS	
Nonylphenol, ethoxylated		127087-87-0	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
No data available	No data available	No data available	No data available
D-Limonene		5989-27-5	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Not Available	Not Available	20 ppm	Not Available

Engineering Control Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Eye/Face Protection Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection Handle with nitrile rubber gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of Environmental Exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. Physical and chemical properties

Appearance	D-Limonene	Liquid
Odor	D-Limonene	characteristic
Odor Threshold	D-Limonene	No data available
pH	D-Limonene	No data available
Melting/Freezing Point	D-Limonene	Melting point/range: -74.3 °C (-101.7 °F)
Initial Boiling Point/Range	D-Limonene	175 - 176 °C (347 - 349 °F)
Flash Point	D-Limonene	50 °C (122 °F)
Evaporation Rate	D-Limonene	No data available
Flammability	D-Limonene	No data available
Upper Explosion Limit	D-Limonene	6.1%
Lower Explosion Limit	D-Limonene	0.7%
Vapor Pressure	D-Limonene	50 hPa (38 mmHg) at ca.50 °C (122 °F)
Vapor Density	D-Limonene	4.70 - (Air = 1.0)
Relative Density	D-Limonene	0.84 g/cm ³ at 25 °C (77 °F)
Water Solubility	D-Limonene	immiscible
Partition Coefficient	D-Limonene	log Pow: 4.2
Auto Ignition Temperature	D-Limonene	245 °C (473 °F) at 995 hPa (746 mmHg)
Decomposition Temperature	D-Limonene	No data available
Viscosity	D-Limonene	No data available

10. Stability and reactivity

Reactivity No data available

Chemical Stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions No data available

Conditions to Avoid Heat, flames and sparks.

Incompatible materials Strong oxidizing agents

Hazardous Decomposition Products No data available

11. Toxicological information

Name	CAS
Nonylphenol, ethoxylated	127087-87-0
Oral - Rat - >3310 ml/kg	
Inhalation: No data available	
Dermal - Rabbit - >2000 ml/kg	
Skin corrosion/irritation Causes skin irritation	
Serious eye damage/eye irritation Causes serious eye damage	
Respiratory or skin sensitization This component is not expected to cause skin sensitization	
Germ cell mutagenicity No data available	
Carcinogenicity Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, ACGIH, or OSHA	
Reproductive This component is not expected to cause reproductive or developmental effects.	
Additional information No data available	

Name	CAS
D-Limonene	5989-27-5
LD50 Oral - Rat - 4,400 mg/kg	
Inhalation: No data available	
LD50 Dermal - Rabbit - > 5,000 mg/kg	
Skin corrosion/irritation No data available	
Serious eye damage/eye irritation Result: No eye irritation	
Respiratory or skin sensitization Result: May cause sensitisation by skin contact.	
Germ cell mutagenicity Result: negative	
Carcinogenicity IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (D-Limonene)	
Reproductive No data available	
Additional information no data available	

12. Ecological information

Name	CAS	Toxicity
Nonylphenol, ethoxylated	127087-87-0	LC50 - fish - >10 mg/l, 96 hours Aquatic Ecotoxicity
D-Limonene	5989-27-5	flow-through test LC50 - Pimephales promelas (fathead minnow) - 0.72 mg/l - 96 h Immobilization EC50 - Daphnia magna (Water flea) - 0.36 mg/l - 48 h Toxicity to bacteria EC50 - Sludge Treatment - 3.94 mg/l

13. Disposal considerations

Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transport information

Proper Shipping Name	Terpene Hydrocarbons, n.o.s. (Marine Pollutant)
Hazard Class	3
Identification Number	UN2319
Packing Group	III
Label	Flammable

15. Regulatory information

Name	CAS
Nonylphenol, ethoxylated	127087-87-0
SARA 302/304	No components were identified
SARA 313	No components were identified
CERCLA	No components were identified
SARA 311/312	No components were identified
PROP 65	No components were identified
This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.	
Name	CAS
D-Limonene	5989-27-5
SARA 302/304	No components were identified
SARA 313	No components were identified
CERCLA	No components were identified
SARA 311/312	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
PROP 65	No components were identified
This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.	

16. Other information, including date of preparation or last revision**SDS Date:** 10/16/2017

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